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Approximation algorithms for metric facility location and k-Median problems using the primal-dual schema and Lagrangian relaxation

Kamal Jain, Vijay V. Vazirani

March 2001 Journal of the ACM (JACM), Volume 48 Issue 2

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Publisher: ACM Press

Full text available: pdf(170.38 KB)

Additional Information: full citation, abstract, references, citings, index

We present approximation algorithms for the metric uncapacitated facility location problem and the metric k-median problem achieving guarantees of 3 and 6 respectively. The distinguishing feature of our algorithms is their low running time: O(m logm) and O (m logm(L + log (n))) respectively, where n and m are the total number of vertices and edges in the und ...

Keywords: k-median problem, Lagrangian relaxation, approximation algorithms, facility location problem, linear programming

Approximation algorithms for facility location problems (extended abstract)

David B. Shmoys, Éva Tardos, Karen Aardal

May 1997 Proceedings of the twenty-ninth annual ACM symposium on Theory of computing

Publisher: ACM Press

Full text available: pdf(1.52 MB)

Additional Information: full citation, references, citings, index terms

3 Optimization: Facility location: distributed approximation

Thomàs Moscibroda, Roger Wattenhofer

July 2005 Proceedings of the twenty-fourth annual ACM SIGACT-SIGOPS symposium on Principles of distributed computing PODC '05

Publisher: ACM Press

Full text available: pdf(212.91 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we initiate the study of the approximability of the facility location problem in a distributed setting. In particular, we explore a trade-off between the amount of communication and the resulting approximation ratio. We give a distributed algorithm that, for every constant k, achieves an O(



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1 Design of logical topologies: a linear formulation for wavelength-routed optical

networks with no wavelength changers

Rajesh M. Krishnaswamy, Kumar N. Sivarajan

April 2001 IEEE/ACM Transactions on Networking (TON), Volume 9 Issue 2

Publisher: IEEE Press

Full text available: 🔁 pdf(257.34 KB) Additional Information: full citation, references, citings, index terms

Keywords: all-optical networks, linear program, network planning, topology design

2 Routing and wavelength assignment in optical networks

Asuman E. Ozdaglar, Dimitri P. Bertsekas

April 2003 IEEE/ACM Transactions on Networking (TON), Volume 11 Issue 2

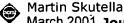
Publisher: IEEE Press

Full text available: pdf(507.86 KB) Additional Information: full citation, abstract, references, index terms

The problem of routing and wavelength assignment (RWA) is critically important for increasing the efficiency of wavelength-routed all-optical networks. Given the physical network structure and the required connections, the RWA problem is to select a suitable path and wavelength among the many possible choices for each connection so that no two paths sharing a link are assigned the same wavelength. In work to date, this problem has been formulated as a difficult integer programming problem that d ...

Keywords: exact penalty functions, lightpath, linear programming, routing, wavelength assignment

3 Convex quadratic and semidefinite programming relaxations in scheduling



March 2001 Journal of the ACM (JACM), Volume 48 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(374.96 KB) terms

We consider the problem of scheduling unrelated parallel machines subject to release dates so as to minimize the total weighted completion time of jobs. The main contribution of this paper is a provably good convex quadratic programming relaxation of strongly polynomial size for this problem. The best previously known approximation algorithms are based on LP relaxations in time- or interval-indexed variables. Those LP relaxations, however, suffer from a huge number of variables. As a result ...

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1 Design of logical topologies: a linear formulation for wavelength-routed optical

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April 2001 IEEE/ACM Transactions on Networking (TON), Volume 9 Issue 2

Publisher: IEEE Press

Full text available: pdf(257.34 KB) Additional Information: full citation, references, citings, index terms

Keywords: all-optical networks, linear program, network planning, topology design

Self-stabilizing topology maintenance protocols for high-speed networks Hosame Abu-Amara, Brian A. Coan, Shlomi Dolev, Arkady Kanevsky, Jennifer L. Welch December 1996 IEEE/ACM Transactions on Networking (TON), Volume 4 Issue 6

Publisher: IEEE Press

Full text available: pdf(1.30 MB)

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Routing and wavelength assignment in optical networks

Asuman E. Ozdaglar, Dimitri P. Bertsekas

April 2003 IEEE/ACM Transactions on Networking (TON), Volume 11 Issue 2

Publisher: IEEE Press

Full text available: pdf(507.86 KB) Additional Information: full citation, abstract, references, index terms

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Keywords: exact penalty functions, lightpath, linear programming, routing, wavelength assignment

Session 1: Self-stabilizing mutual exclusion using tokens in mobile ad hoc networks

Yu Chen, Jennifer L. Welch

September 2002 Proceedings of the 6th international workshop on Discrete algorithms and methods for mobile computing and communications

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms, Full text available: Todf(214.98 KB)